

Acute

TravelData Data Generator

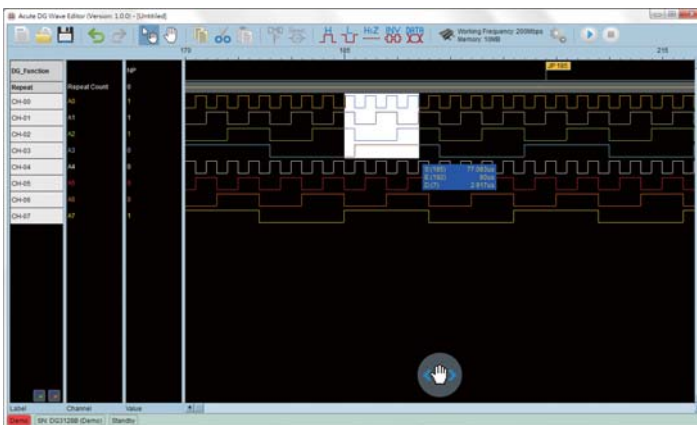


123 x 76 x 21 mm³

- PC-based
- USB 3.0 Interface
- Channels : 16 (Data Output), 3 (Event Input)
- Data rate : 200Mbps @Ch (Max.)
- Memory: 256Mb/ch (Max.)
- Clock Range : 1Hz ~ 200MHz (6 digits)
- Data output : 0.9Vpp ~ 4.5Vpp (0.1V resolution) and Hi-Z
- Default pattern : I²C, MIPI I3C, MIPI RFFE, PMBus, PWM, SPI, Sync / Async-Counter, ...
- User pattern : Direct draw, Acute-LA / VCD, CSV (MIPI I3C, MIPI RFFE), ...

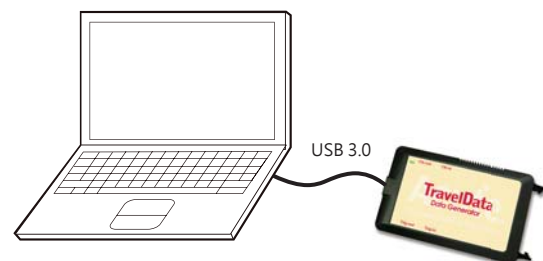
Model	Data Channel	Event Channel	Pattern Depth
TD3116B	16	3	1Mb/ch
TD3216B	16	3	256Mb/ch

Software Window



System Requirements

- USB 3.0 port
- Win 7, Win 8, Win 10, Win11
- PC RAM 16GB (**recommended**) or 8GB at least



Acute®

PC-based T&M Instruments

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TD3000 series

Model			TD3116B	TD3216B
Power	Power Source		USB 3.0	
	Static Power Dissipation		2.5W	
	Max Power Dissipation		4.5W	
Hardware Interface			USB 3.0	
Number of Output Channels			16	
Memory	Pattern Depth /ch		1Mb	256Mb
Data Rate			200Mbps @Ch (Max.)	
Operation Clock System	Internal	Range	1Hz ~ 200MHz	
		Resolution	6 digits	
	External	Clock Range	<200MHz	
		Input Channels	1 Channel (TTL3.3V)	
Data Flow Control			Loop, Jump, Hold, Wait for Event	
Period Jitter	Clock		<200ps	
	Channel		<200ps	
Temperature	Operating / Storage		5°C~45°C (41°F~113°F) / -10°C~65°C (14°F~149°F)	
Software Features	Languages		English / 繁體中文 / 简体中文	
	Save & Load Waveform		Yes	
	Regular Waveform Generator		Synchronous / Asynchronous Counter, Printer (SPP), I ² C, MIPI I3C, MIPI RFFE, PMBus, PWM, SPI	
	Waveform Editing Interface		Waveform Drawing, Script File - DGV/ VCD/ CSV (MIPI I3C, MIPI RFFE)	
Dimension	L x W x H (mm³)		123 x 76 x 21	
Weight			680g	
Lead Cable	(Data / CLK-IN / CLK-OUT / Event / GND / N.C.)		A 40-pin lead cable (16 / 1 / 1 / 3 / 18 / 1)	
Grippers			20	
Data Output	Channels		16 with OE	
	Data Rate		200Mbps @Ch (Max.)	
	Group		2 (ch0~7 & CKO, ch8~15)	
	VoL		0V	
	VoH min.	0.9Vpp @ <= 15Mbps, 1Vpp @ <= 100Mbps, 1.1Vpp @ <= 200Mbps		
	VoH max.		4.5V	
	Minimum Pulse Width		5 ns	
	Impedance		CMOS with 20 Ω	
	Fan Out		20mA/ch @ 50 Mbps	
Output Enable			All channels	
Event / Clock Input	Internal	Hot Key		
		3 Event / 1 Clock		
		Logic AND / Logic OR		
	External	Channels	±5V	
		Mode	200MHz (Max.)	
		Threshold	-10V~10V	
		Frequency	±30V DC, 12Vpp AC	
		Operation	5 ns	
		Non Destructive	1.5V	
Minimum Pulse Width		200KΩ 7pF		
Sensitivity				
Impedance				

Packing List :



Device



USB 3.0 cable



Aux. In/Out Cable



18.5cm Lead Cable



Grippers